

# ABB BALDOR RELIANCE III

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## Customer information packet

### EBM3710TY-DI

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3736M, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                          |
| <b>Frame</b>                          | 213T                                                          |
| <b>Frame Material</b>                 | Steel                                                         |
| <b>Frequency</b>                      | 60.00 Hz                                                      |
| <b>Haz Area Class and Group</b>       | None                                                          |
| <b>Haz Area Division</b>              | Not Applicable                                                |
| <b>Motor Letter Type</b>              | Three Phase                                                   |
| <b>Output @ Frequency</b>             | 7.500 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                             |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                              |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                            |
| <b>Agency Approvals</b>               | CSA<br>CSA EEV<br>UR                                          |
| <b>Ambient Temperature</b>            | 40 °C                                                         |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                              |
| <b>Auxiliary Box Lead Termination</b> | None                                                          |
| <b>Base Indicator</b>                 | Rigid                                                         |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                       |
| <b>Blower</b>                         | None                                                          |
| <b>Current @ Voltage</b>              | 21.000 A @ 208.0 V<br>9.400 A @ 460.0 V<br>18.800 A @ 230.0 V |
| <b>Design Code</b>                    | A                                                             |
| <b>Drip Cover</b>                     | No Drip Cover                                                 |
| <b>Duty Rating</b>                    | CONT                                                          |
| <b>Efficiency @ 100% Load</b>         | 91.7 %                                                        |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                     |
| <b>Feedback Device</b>                | NO FEEDBACK                                                   |
| <b>Front Face Code</b>                | Brake Mounting                                                |
| <b>Front Shaft Indicator</b>          | None                                                          |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | J          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37H582     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGT859   |
| <b>Layout</b>       | 37LYH582   |
| <b>Eff. date</b>    | 05-02-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 09-29-2016 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Heater Indicator</b>              | No Heater             |
| <b>High Voltage Full Load Amps</b>   | 9.4 a                 |
| <b>Insulation Class</b>              | F                     |
| <b>Inverter Code</b>                 | Inverter Ready        |
| <b>KVA Code</b>                      | J                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing     |
| <b>Motor Lead Exit</b>               | Ko Box                |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 14 AWG            |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 3736M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 4                     |
| <b>Overall Length</b>                | 27.20 IN              |
| <b>Power Factor</b>                  | 81                    |
| <b>Product Family</b>                | General Purpose       |
| <b>Pulley End Bearing Type</b>       | Ball                  |
| <b>Pulley Face Code</b>              | Standard              |
| <b>Pulley Shaft Indicator</b>        | Standard              |
| <b>Rodent Screen</b>                 | None                  |
| <b>RoHS Status</b>                   | ROHS COMPLIANT        |
| <b>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 1.375 IN              |
| <b>Shaft Extension Location</b>      | Pulley End            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | No Slinger            |
| <b>Speed</b>                         | 1770 rpm              |
| <b>Speed Code</b>                    | Single Speed          |
| <b>Starting Method</b>               | Direct on line        |
| <b>Thermal Device - Bearing</b>      | None                  |
| <b>Thermal Device - Winding</b>      | None                  |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor   |



|                   |      |
|-------------------|------|
| Winding Thermal 1 | None |
| Winding Thermal 2 | None |

**Nameplate**

| NP1259L      |              |      |     |      |   |    |   |    |   |  |  |
|--------------|--------------|------|-----|------|---|----|---|----|---|--|--|
| CAT.NO.      | EBM3710TY-DI |      |     |      |   |    |   |    |   |  |  |
| SPEC.        | 37H582T859G2 |      |     |      |   |    |   |    |   |  |  |
| HP           | 7.5          |      |     |      |   |    |   |    |   |  |  |
| VOLTS        | 230/460      |      |     |      |   |    |   |    |   |  |  |
| AMP          | 18.8/9.4     |      |     |      |   |    |   |    |   |  |  |
| RPM          | 1770         |      |     |      |   |    |   |    |   |  |  |
| FRAME        | 213T         |      | HZ  | 60   |   |    |   | PH | 3 |  |  |
| SER.F.       | 1.15         | CODE | J   | DES  | A | CL | F |    |   |  |  |
| NEMA-NOM-EFF | 91.7         | PF   | 81  |      |   |    |   |    |   |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |   |    |   |  |  |
| CC           | 010A         |      |     |      |   |    |   |    |   |  |  |
| DE           | 6307         |      | ODE | 6306 |   |    |   |    |   |  |  |
| ENCL         | TEFC         | SN   |     |      |   |    |   |    |   |  |  |

**Parts List**

| <b>Part number</b> | <b>Description</b>                       | <b>Quantity</b> |
|--------------------|------------------------------------------|-----------------|
| SA328048           | SA 37H582T859G2                          | 1.000 ea        |
| RA315970           | RA 37H582T859G2                          | 1.000 ea        |
| HW3200A01          | 3/8-16X3/4 EYEBOLT WELDED F/S            | 1.000 ea        |
| 37CB3006           | 37 CB CASTING W/1.38 LEAD HOLE @ 6:00    | 1.000 ea        |
| 37GS1000SP         | GASKET, CONDUIT BOX STD., .06 THICK LEXI | 1.000 ea        |
| 51XW2520A12        | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 ea        |
| 11XW1032G06        | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea        |
| 37EP1301A01        | STD FACE MTD ENDPLATE, BRAKE MTG         | 1.000 ea        |
| HW4500A01          | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea        |
| HW5100A07          | W2816-030 WVY WASHER (WB)                | 1.000 ea        |
| 37EP3100A03        | FR/PU ENDPLATE, MACH                     | 1.000 ea        |
| HW4500A01          | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea        |
| XY3118A12          | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 ea        |
| HW2501E10          | KEY, 1/4 SQ X 1.000                      | 1.000 ea        |
| 84XN5013J20        | 1/2-13 X 1-1/4 HEX SOCKET HD CAP SCREW   | 4.000 ea        |
| 51XB1214A20        | 12-14X1.25 HXWSSLD SERTYB                | 1.000 ea        |
| HW2500A16          | KEY USA #606, WOODRUFF                   | 1.000 ea        |
| 07FH4007A25        | IEC FH W/GRSR, DRAIN & 1.62 DIA. SHAFT H | 1.000 ea        |
| 51XW1032A06        | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea        |
| 37CB4516           | LIPPED LID FOR 37 FRAME NEC KOBX         | 1.000 ea        |
| 37GS1008           | 37 GS FOR CB LID - LEXIDE                | 1.000 ea        |
| 51XW0832A07        | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea        |
| HW2501F21          | KEY, 5/16 SQ X 2.375                     | 1.000 ea        |
| HA7000A02          | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 ea        |
| 85XU0407S04        | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea        |
| MJ1000A02          | GREASE, POLYREX EM EXXON                 | 0.050 lb        |
| HW2501E10          | KEY, 1/4 SQ X 1.000                      | 1.000 ea        |
| 37FN3002A05        | EXFN, PLASTIC, 9.00 OD, 1.380 ID         | 1.000 ea        |
| MG1050Y01          | CELEROL BALDOR GOLD *5 GALLON BUCKET*    | 0.028 ga        |
| HA3104A17          | 5/16-18X13.250 T-BLT/OHIO                | 4.000 ea        |
| 96BK0616           | BRAKE-35 LB/FT,230/460,180/390,60/50HZ   | 1.000 ea        |

|          |                                          |          |
|----------|------------------------------------------|----------|
| LC0005   | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| NP1259L  | ALUM SUPER-E UL CC NEMA PREMIUM A60      | 1.000 ea |
| 37PA1039 | PALLET PACK GROUP, BLANK PK1148          | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| LB1624   | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |

ABB Motors and Mechanical Inc.

WINDING # 37WGT859

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3736M

TORQUES (LB-FT): PO=69.2 PU=36.1 LR=41.1 LRA=70.1







